

# CATALL

- For Mainframes
- For UNIX/OpenVMS
- For Windows

## CATALL for Mainframes

<b>CATALL</b>	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex-grow: 1;"> <math>\left[ \begin{array}{l} \text{object-name} \text{ [TO object-name]} \end{array} \right]</math> </div> <div style="text-align: center;"> <math>\left[ \begin{array}{c} \text{RECAT} \\ \text{ALL} \end{array} \right]</math> </div> <div style="flex-grow: 1;"> <math>\left[ \text{TYPES } \text{types} \right]</math> </div> <div style="text-align: center;"> <math>\left[ \begin{array}{c} \text{SAVE} \\ \text{CATALOG} \\ \text{STOW} \\ \text{CHECK} \end{array} \right]</math> </div> <div style="flex-grow: 1;"> <math>\left[ \text{options...} \right]</math> </div> </div> <div style="text-align: center; margin-top: 10px;"> <math>\text{text-name}</math> </div>
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The CATALL command is used to store all objects in the current library in source and/or object form.

When you enter the CATALL command without any additional options, the Catalog Objects in Library screen is displayed, which you use to perform the following functions:

- Catalog Objects from/to
- Recatalog Only Existing Modules, or Catalog All Sources
- Select Object Types
- Select Function
- Select Options
- Invoke Selection List

You can also issue the CATALL command directly using the command syntax shown above.

- Direct Command Syntax

### Catalog Objects from/to

If you wish CATALL to be performed for **all** objects of the selected types in the current library, specify an asterisk (\*) as object name in the "from" field.

If you wish CATALL to be performed for a certain range of objects, you can use asterisk notation (\*) and wildcard notation (?) for the name in the "from" field, as described for the system command LIST.

You can also specify a start setting and an end setting for a certain range of objects by entering corresponding object names (without asterisk or wildcard notation) in the "from" and "to" fields.

Instead of entering settings in these fields, you can also select objects from a selection list (see below).

Moreover, you can enter in the "from" field the name of an object of type text which contains a list of CATALL commands. The CATALL commands contained in the text will then be executed. You can either create such a text manually or have it created automatically when you use the selection list (see below).

## Recatalog Only Existing Modules, or Catalog All Sources

This option only applies to the functions Catalog and Stow:

- If you mark the first of the two fields, only those objects for which object modules already exist in the current library will be cataloged again; objects which only exist in source form will not be cataloged.
- If you mark the second of the two fields, **all** selected objects will be cataloged.

### Note:

This option does not apply to objects of type copycode and text.

## Select Object Types

By default, CATALL applies to objects of all types in the current library (all object types are marked with **X**). If you wish objects of a certain type not to be processed by CATALL, overwrite the respective **X** with a blank.

## Select Function

You can select one of the following functions to be applied to the selected objects: SAVE, CATALOG, STOW or CHECK. The functions correspond to the system commands of the same names.

### Note:

Objects of type copycode and text will be saved, even if you select Stow. They will not be saved, if you select Catalog.

## Select Options

You can select one or more of the following options for CATALL processing:

Condition Code in Batch	If you execute CATALL in batch mode and mark this option with a character, Condition Code 55 will be returned either if a syntax error is detected during CATALL execution or if no objects are found within the specified range of objects to be processed (applies to CATALOG and STOW only).
Renumber Source-Code Lines	By default, the source-code lines of sources that were Saved or Stowed are also renumbered.  If you wish no automatic renumbering of lines, overwrite the <b>X</b> in this field with a blank.
Keep Result List	CATALL generates a result list. If you wish to keep this list for further use, mark this field with a character.  The library SYSEXT contains the user exit USR1024 which you can use to output the result list.
Processing Information	During online processing, CATALL shows a scrolling display of processing status information.  To suppress this display, overwrite the <b>X</b> in this field with a blank.
Error Report	At the end of processing, CATALL displays a list of the errors that occurred.  To suppress this error list, overwrite the <b>X</b> in this field with a blank.

## Selection List

If you wish to use CATALL only for certain objects, you can select these objects from a selection list.

To do so, first make the desired specifications under Select Function and Select Options, and then press PF5. A list of the objects stored in the current library is displayed.

The list corresponds to that of the system command LIST. Scrolling the selection list and the specification of new selection criteria on the list is also done in the same way as with the LIST command.

On the list, select the desired objects by marking them with a character in the column Cmd. To simultaneously select **all** objects of the current selection list, press PF5. You can then scroll the list, specify other selection criteria, and select further objects.

When you have selected all objects you wish to process, press PF3.

A window is displayed which allows you to store the selected set of objects so that you can re-use it in other CATALL processing:

- If you enter a name in the window, the selected set of objects will automatically be stored (in the form of CATALL commands) in an object of type text of that name. You can later use that text name in the field "Catalog Objects from" of the CATALL screen (see also above).
- If this is not desired, press ENTER without entering anything in the window.

CATALL will then begin to process the selected objects.

## Direct Command Syntax

For the various specifications you can make on the CATALL screen, there are also corresponding options which you can specify directly with the system command CATALL:

<i>object-name TO object-name</i>	Corresponds to the fields "Catalog Objects from" and "to" of the CATALL screen.
RECAT / ALL	Corresponds to the options Recatalog Only Existing Modules, or Catalog All Sources of the CATALL screen.

<i>TYPES types</i>	<p>Corresponds to the object types marked on the CATALL screen. Possible <i>types</i> are:</p> <ul style="list-style-type: none"> <li>G Global data areas</li> <li>A Parameter data areas</li> <li>L Local data areas</li> <li>C Copycodes</li> <li>T Texts</li> <li>S Subroutines</li> <li>N Subprograms</li> <li>H Help routines</li> <li>M Maps</li> <li>P Programs</li> <li>4 Classes</li> <li>* All types (this is the default)</li> </ul> <p>The <i>types</i> have to be specified as <b>one</b> character string, for example, LAG for local, parameter and global data areas.</p>
SAVE / CATALOG / STOW / CHECK	Corresponds to the functions of the same names on the CATALL screen.
<i>options</i>	<p>These options correspond to Select Options on the CATALL screen. Possible <i>options</i> are:</p> <ul style="list-style-type: none"> <li>CC Condition Code will be returned.</li> <li>NOREN No automatic renumbering of source-code lines.</li> <li>KEEP Result list will be kept.</li> <li>NOSCROLL Scrolling display of processing status information will be suppressed.</li> <li>NOREPORT Error report will be suppressed.</li> </ul> <p><b>Note:</b> If you specify NOREPORT <b>and</b> NOSCROLL, KEEP will automatically apply, too.</p>
<i>text-name</i>	Corresponds to specifying a text name in the "Catalog Objects from" field of the CATALL screen.

**Example of CATALL Command:**

CATALL \* STOW KEEP CC NOREN

**Note:**

The individual command components must be separated from one another either by a blank or by the input delimiter character (as defined with the **session parameter ID**).

## CATALL for UNIX/OpenVMS

**CATALL** [*object-name*]

This command is used to catalog all objects in the current library.

The CATALL command invokes the Start Catall window:

```

+----- Start Catall -----+
| Object Name: *              |
|                             |
| Recatalog only if module exists      X
| Catalog all source objects           |
|                             |
| DDMS                X  Help routines      X
| Global Data Areas   X  Maps                X
| Local Data Areas    X  Programs            X
| Parameter Data Areas X  Generate new map source
| External Subroutines X  Classes              X
| Subprograms         X                    |
+-----+
  
```

In this window, you can make the following specifications:

- **Object name**  
If you wish CATALL to be performed for all objects of the selected types in the current library, specify "\*" as object name.  
If you wish it to be performed for a certain range of objects, you can use asterisk notation for the name.
- **Recatalog only if module exists**  
If you mark this field, only those objects for which object modules already exist in the current library will be cataloged again; objects which only exist in source form will not be cataloged; or:
- **Catalog all source objects**  
If you mark this field, *all* selected objects will be cataloged.
- **Object types**  
By default, CATALL applies to objects of all types in the current library (all object types are marked with "X").  
If you wish objects of a certain type *not* to be affected by CATALL, overwrite the respective "X" with a blank.
- **Generate new map source**  
Maps created with previous Natural versions are not necessarily compatible with Natural Version 3.1 and above. Mark this field to ensure that maps are converted during the catalog operation. This option converts and stores maps in source *and* object form.

During CATALL processing, a statistics window appears and the objects being cataloged are listed.

**Note:**

If you press any key while CATALL processing is in progress, CATALL will be stopped.

Upon successful completion of processing, an information message is displayed.

If an object was not cataloged successfully, a window showing the object name, error number and error line is displayed.

If calling CATALL command from within a Natural program with stacked parameters, Natural assumes batch mode and does not display the error dialog in case of compile errors. Instead of the dialog a file will be created in Natural's temporary directory (TMP\_PATH) with name library.CTL. This file is empty if no errors are found, else it contains the failed objects with line number and error code.

# CATALL for Windows

**CATALL** *[object-name]*

This command is used to catalog all objects or selected objects in the current library. When you issue this command, the "Catalog selected Objects" / Catalog Objects in Library: name dialog box appears. In this box, you specify which types of objects are to be cataloged. Objects are cataloged in the order in which the object types are listed in the "Catalog selected Objects" dialog box, beginning with DDMs and ending with dialogs.

## Catalog Object

Enter "\*" for all objects of the selected types in the current library.

Asterisk notation can also be used to further restrict the number of objects to be cataloged.

## Catalog all source objects

If you select this action, *all* selected objects will be cataloged.

## Catalog only objects in both source and cataloged form

If you select this action, only those objects for which object modules already exist in the current library will be cataloged again; objects that exist only in source form will not be cataloged.

## Object Types

By default, CATALL applies to objects of all types in the current library (all object types are selected). If you wish objects of a certain type *not* to be affected by CATALL, deselect it.

## Generate New Map Source

Maps created with previous Natural versions are not necessarily compatible with Natural Version 3.1. Mark this box to ensure that maps are converted during the catalog operation. This option converts and stores maps in source *and* object form.

## Processing

After the CATALL command has been issued, a statistics window displays in real time the number of objects selected, the number of objects already processed, the number of objects cataloged successfully and the number of objects that could not be cataloged.

After cataloging is completed, choose OK. If any objects were not cataloged successfully, they are displayed in a window in the order they were processed. Associated with each object name is an error number (reason why the object could not be cataloged) and an error line (the line position in source code where the error can be found).

### To view an explanation of the error

1. Select the object from the list.
2. Choose OK to edit the object.

### Note:

To interrupt a CATALL in progress, press the STOP button.



